



DEPARTMENT OF THE NAVY
BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE WEST
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SAN DIEGO, CA 92147

5090
Ser BPMOW.ab/0341
October 2, 2017

Mr. Matthew West
Deputy City Manager
City of Tustin
300 Centennial Way
Tustin, CA 92680

Dear Mr. West:

SUBJECT: NOTIFICATION REGARDING PER - AND POLYFLUOROALKYL
SUBSTANCES (PFAS) IN GROUNDWATER AT FORMER MARINE CORPS
AIR STATION (MCAS) TUSTIN, TUSTIN, CALIFORNIA

The purpose of this letter is to provide notification to the City of Tustin, owner of former U.S. Department of the Navy (Navy) property commonly known as Installation Restoration Program Site 1, regarding the Navy's PFAS investigation of groundwater at this location at Former MCAS Tustin (see Enclosure 1).

PFAS are a class of man-made chemicals found in many consumer products such as stain-resistant textiles, nonstick cookware, cleaning products, and cosmetics. In military applications, various PFAS compounds, including perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA), were used in aqueous film-forming foam (AFFF), which was historically used for firefighting in response to aircraft crashes. AFFF was also used in firefighting equipment testing and training. More information can be found on the Navy's PFAS website at <http://www.secnav.navy.mil/eie/pages/pfc-pfas.aspx>.

As documented in the Navy's October 2016 *Final Five-Year Review Report*, PFAS have been identified as emerging contaminants by the U.S. Environmental Protection Agency (U.S. EPA). In May 2016, U.S. EPA issued lifetime health advisories for long-term exposures to PFOA and PFOS through drinking water. The lifetime health advisory levels are 70 parts per trillion (ppt) for individual or combined concentrations of PFOA and PFOS. U.S. EPA also established a risk-based regional screening level for perfluorobutanesulfonic acid (PFBS) at 380,000 ppt.

Groundwater at Former MCAS Tustin is not used as a drinking water source and is not anticipated to be a future drinking water source. Nevertheless, as a voluntary and proactive measure to confirm the presence or absence of PFAS, specifically, PFOS, PFOA, and PFBS, the Navy performed a single groundwater sampling event at Site 1 in July 2017 in accordance with the regulatory agency-approved July 2017 *Final Work Plan for Per- and Polyfluoroalkyl Substances Sampling for Groundwater Remedial Action at Operable Unit 3, IRP Site 1*. The site was selected based on its historical use as a firefighting training area and the potential release of materials known to contain PFAS.

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Sampling results confirmed the presence of PFOS and PFOA in groundwater at concentrations greater than the U.S. EPA lifetime health advisory levels for drinking water. PFBS was not detected at concentrations greater than the regional screening level (see Enclosure 2). In accordance with the Final Work Plan, the Navy will be submitting a report summarizing the PFAS sampling results.

If you have any questions or would like to discuss further, I can be reached at (619) 524-4048 or james.b.sullivan2@navy.mil.

Sincerely,



JAMES B. SULLIVAN
BRAC Environmental Coordinator
By direction of the Director

Enclosure: 1. Former MCAS Tustin IRP Site 1 Site Map
2. July 2017 PFAS Sampling Data

Copy to: (w/encl)

Mr. Omoruyi Patrick
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Ms. Desire' Chandler
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Mr. Roy Herndon
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Ms. Mary Aycock
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Mr. Arseny Kalinsky
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ENCLOSURE 1

SANTA FE CHANNEL

PFOA + PFOS =
423.3 ng/L

PFOA + PFOS =
8,000 ng/L

PFOA + PFOS =
769,900 ng/L

I001BC47S
37.84

I001BC49S
37.83

I001MW52S*
40.54

I001BC50S
37.2

I001MW53S
36.53

I001BC43S
39.86

1SW04

1SW03

JAMBOREE ROAD

PETERS CANYON CHANNEL

EDINGER AVENUE

LEGEND

- WELLS INSTALLED IN THE 1st WATER-BEARING ZONE
- SURFACE WATER SAMPLE LOCATIONS
- GROUNDWATER EQUIPOTENTIAL LINE IN FEET ABOVE MEAN SEA LEVEL (FT MSL); DASHED WHERE APPROXIMATE
- GENERALIZED GROUNDWATER FLOW DIRECTION (DIRECTION OF GROUNDWATER FLOW IS PERPENDICULAR TO WATER LEVEL CONTOURS)
- SURFACE WATER FLOW DIRECTION (PETERS CANYON CHANNEL)
- ROAD OR PAVED AREA
- BUILDING OR STRUCTURE
- APPROXIMATE CHANNEL BOUNDARY
- CONTAINMENT WALL
- APPROXIMATE IRP SITE BOUNDARY AND AREA REQUIRING INSTITUTIONAL CONTROLS
- BOUNDARY FORMER MARINE CORPS AIR STATION, TUSTIN

I001MW53S ← MONITORING WELL IDENTIFIER
39.37 ← WATER LEVEL ELEVATION (Feet Mean Sea Level)
★ ← THE WATER LEVEL ELEVATION AT I001MW52S REPRESENTS A LOCALIZED ANOMALY AND WAS NOT USED FOR CONTOURING

NOTE:

ALL WATER ELEVATION MEASUREMENTS WERE TAKEN ON MAY 5, 2015.

WELL ID SUFFIX:

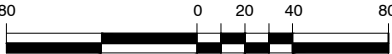
S = First WBZ
D = Second WBZ

ABBREVIATIONS:

WBZ = Water Bearing Zone



GRAPHIC SCALE



SCALE: 1" = 80'

DRAWING MAY BE REDUCED
CHECK GRAPHIC SCALE BEFORE USING

FIGURE 5

Base Realignment and Closure
Program Management Office West

FORMER MARINE CORPS AIR STATION
TUSTIN, CALIFORNIA
2015 ANNUAL GROUNDWATER PROGRESS MONITORING REPORT
OU-3
GROUNDWATER ELEVATIONS
FIRST WATER BEARING ZONE



ENCLOSURE 2

MCAS Tustin OU-3 PFAS Results

Analyte	Screening Level	I001BC50S (upgradient)	I001BC50S (source area)	I001BC52S (downgradient)
PFOA	70	397	6,840	743,000
PFOS	70	26.3	1,160	26,900
PFOA + PFOS	70	423.3	8,000	769,900
PFBS	380,000	62.4	1,070	66,700

Notes:

Units in nanograms per liter (ng/L)

Exceedances are in bold